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Product datasheet for CF815363

Ribonuclease H2, subunit A (RNASEH2A) Mouse Monoclonal Antibody [Clone ID: OTI7H10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7H10
Applications:	WB
Recommended Dilution:	WB 1:500-1:2000
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human RNASEH2A (NP_006388) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	33.4 kDa
Gene Name:	ribonuclease H2 subunit A
Database Link:	NP_006388 Entrez Gene 69724 MouseEntrez Gene 10535 Human O75792

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Background: The protein encoded by this gene is a component of the heterotrimeric type II ribonuclease H enzyme (RNAseH2). RNAseH2 is the major source of ribonuclease H activity in mammalian cells and endonucleolytically cleaves ribonucleotides. It is predicted to remove Okazaki fragment RNA primers during lagging strand DNA synthesis and to excise single ribonucleotides from DNA-DNA duplexes. Mutations in this gene cause Aicardi-Goutieres Syndrome (AGS), a an autosomal recessive neurological disorder characterized by progressive microcephaly and psychomotor retardation, intracranial calcifications, elevated levels of interferon-alpha and white blood cells in the cerebrospinal fluid.[provided by RefSeq, Aug 2009]

Synonyms: AGS4; JUNB; RNASEHI; RNHIA; RNHL; THSD8

Protein Pathways: DNA replication

Product images:

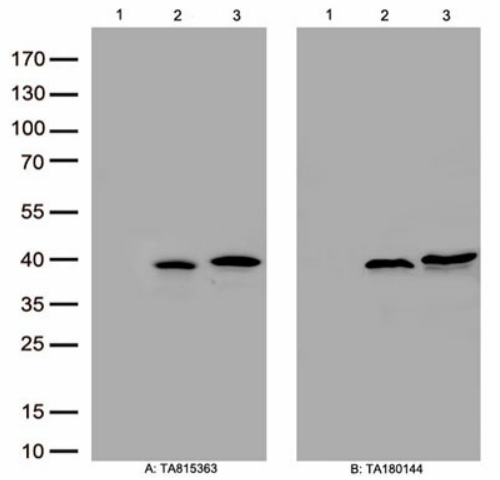
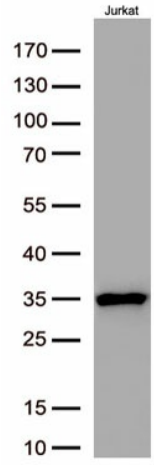


Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1) , human RNASEH2A plasmid ([RC204032], lane 2), mouse RNASEH2A plasmid ([MR204190], lane 3) using anti-ADAR antibody [TA815363] (1:2000). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



Western blot analysis of extracts(50ug) from Jurkat cell lines lysate by using anti-RNASEH2A monoclonal antibody. ([TA815363], 1:500)